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(81) 指定国 (国内): CN, KR, US.

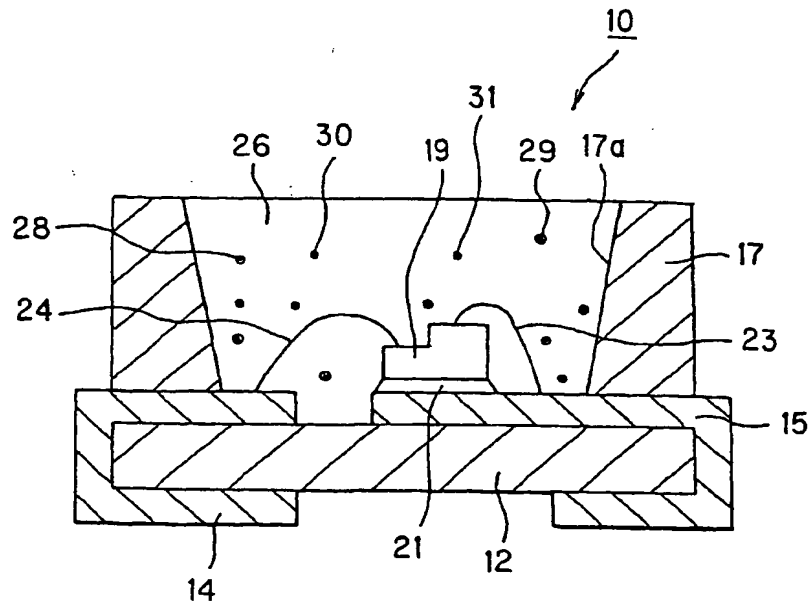
(84) 指定国 (広域): ヨーロッパ特許 (AT, DE, FR, GB, NL).

添付公開書類:
一 国際調査報告書

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(54) Title: WHITE LIGHT EMITTING DEVICE

(54) 発明の名称: 白色発光装置



(57) Abstract: A purple LED (19) is fixed onto lead frames (14, 15) in the cup (17a) of a frame (17) using a mount (21), and the purple LED (19) is sealed by filling a sealant (26) of transparent resin into the cup (17a). Red/green/blue phosphors (28-30) that absorb a light emitted by the purple LED (19) and emit lights having red, green, blue wavelengths different from the wavelength of this absorbed light are mixed into the sealant (26). A yellow phosphor (31) that absorbs a light emitted by the purple LED (19) and emits a light having a yellow wavelength different from the wavelength of this absorbed light is additionally mixed into the sealant (26) in such a white light emitting device.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/12119

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl.⁷ H01L33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl.⁷ H01L33/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

| | | | |
|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1922-1996 | Toroku Jitsuyo Shinan Koho | 1994-2003 |
| Kokai Jitsuyo Shinan Koho | 1971-2003 | Jitsuyo Shinan Toroku Koho | 1996-2003 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| X | WO 01/89000 A1 (GENERAL ELECTRIC CO.), 22 November, 2001 (22.11.01), Page 3, line 14 to page 4, line 17; Figs. 2 to 4 & CA 2375069 A & AU 6155301 A & BR 106639 A & CZ 20020167 A & CN 1386306 T & EP 1295347 A | 1-4, 8, 9 |
| Y | JP 2002-76445 A (Sanken Denki Kabushiki Kaisha), 15 March, 2002 (15.03.02), Full text; all drawings (Family: none) | 1-15 |
| Y | JP 11-39917 A (Hewlett-Packard Co.), 12 February, 1999 (12.02.99), Par. Nos. [0013] to [0015] (Family: none) | 1-15 |

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

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Date of the actual completion of the international search
22 December, 2003 (22.12.03)Date of mailing of the international search report
20 January, 2004 (20.01.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

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INTERNATIONAL SEARCH REPORT

International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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